

What is claimed and desired to be secured by Letters Patent is:

1 (1) A lighting assembly comprising:

2 (1) a housing;

3 (2) a source of electric power transmitted within the housing;

4 (3) a series of light emitting diodes mounted within said housing and sufficient in
5 output wavelength for excitation of phosphorous receptive to an ultra-violet region
6 of the electromagnetic spectrum;

7 (4) transforming means to convert power into a known voltage for use by a plurality
of said light emitting diodes;

(5) a light emitting transparent surface having an interior surface area; and

(6) a coating of ultra-violet excitable phosphorous and placed on the interior surface
area of said transparent enclosure, whereby when said phosphorous coating is
excited by light emitted from said diodes, a light spectrum visible to the naked
eye is produced by said coating and through the transparent surface.

1 (2) The assembly of Claim 1 wherein each diode has a peak intensity wavelength of 371nm
2 and a full width at 1/2 maximum dispersion of about 8.6.

1 (3) The assembly of Claim 1 wherein each diode output is no less than about 6nm of a
2 secondary ultra-violet output peak of a fluorescent mercury arch.

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